Safety Data Sheet

BEFSIL MACRO EM

Version : V3.0.0.1
Creation Date : 2019/08/13
Revision Date : 2022/5/13
*Prepared according to EU regulation No. 2015/830

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name	BEFSIL MACRO EM
INCI Name.	Amodimethicone (and) Cetrimonium Chloride (and) Trideceth-12
Synonyms	-
CAS No.	-
EC No.	-
Molecular Formula	-
REACH Registration Number	-

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

1.3 Details of the supplier of the Safety Data Sheet

Name of the company	BEFCHEM KİMYEVİ MADDELER SANAYİ TİCARET A.Ş.
Address of the company	MAHMUTBEY MAH. 2408. SK. NO: 4 BAGCILAR/ ISTANBUL
Post code	34218
Telephone number	+90 216 912 23 27
Fax number	+90 850 724 00 35
E-mail address	info@befchem.com

1.4 Emergency phone number

Emergency phone number	+90 216 912 23 27

2. Hazards identification

2.1 CLP classification according to Regulation (EC) No. 1272/2008

Aspiration Hazard	Category 2
Skin Corrosion/Irritation	Category 2
Eye Damage/Irritation	Category 1
Reproductive Toxicity	Category 2

2.2 Label elements

Hazard pictograms	
Signal word	**Warning**

2.3 Hazard statements

H315	Causes skin irritation
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child

2.4 Precautionary statements

◆ **Prevention**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

◆ **Response**

P331	Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P308+P313	IF exposed or concerned: Get medical advice/ attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

◆ **Storage**

P405	Store locked up.

◆ **Disposal**

P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.

2.5 Other hazards

	Not applicable

3. Component information on ingredients

Component	Cas No.	EC No.	Hazard classification according to CLP	Concentration
Amodimethicone	68554-54-1	-	No information available	30~35
Trideceth-12	78330-21-9	-	Serious Eye Damage/Irritation , Category 1 , H318	1.5~2.5

Cetrimonium chloride	112-02-7	203-928-6	toxic to aquatic life with long lasting effects, is harmful if swallowed and causes serious eye damage.Acute Toxicity – Oral , Category 4 , H302 ; Acute Toxicity – Dermal , Category 3 , H311 ; Skin Corrosion/Irritation , Category 1C , H314 ; Serious Eye Damage/Irritation ,Category 1 ,H318 ; Hazardous To The Aquatic Environment – Short-Term (Acute) Hazard ,Category 1 ,H400 ;Hazardous To The Aquatic Environment – Long-Term (Chronic) Hazard , Category 1 , H410	1.0~3.0
Sodium Benzoate	532-32-1	208-534-8	causes serious eye irritation.	≤0.5

4. First aid measures

4.1 Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

4.2 Most important symptoms and effects, both acute and delayed

1	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

4.3 Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Alcohol-resistant foam. Carbon dioxide (CO_2). Dry chemical. Water spray.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

5.2 Specific hazards arising from the substance or mixture

1	Hazardous combustion products: Carbon oxides. Silicon oxides. Nitrogen oxides (NO_x). Chlorine compounds.
2	Unusual Fire and Explosion Hazards: Exposure to combustion products may be a hazard to health.. Fire burns more vigorously than would be expected..

5.3 Advice for firefighters

1	Use water spray to cool unopened containers.. Evacuate area.
2	Collect contaminated fire extinguishing water separately. This must not be discharged into drains.. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage.
3	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Remove undamaged containers from fire area if it is safe to do so.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

1	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
2	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
3	Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

6.2 Environmental precautions

1	Prevent further leakage or spillage if safe to do so.
2	Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

1	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
2	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
3	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7. Handling and storage

7.1 Precautions for handling

◆ Protective measures

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.

◆ Measures to prevent fire

1	Keep away from heat/sparks/open flames/ hot surfaces.

◆ Measures to prevent aerosol and dust generation

1	Not applicable.

◆ Advice on general occupational hygiene

1	Wash hands and face after using of the substances.
2	Replace the contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities

1	Keep containers tightly closed .

2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

7.3 Specific end uses

1	In addition to use mentioned in the first parts, unforeseen other specific end uses.

8. Exposure controls/personal protection

8.1 Control parameters

◆ Occupational Exposure limit values

Occupational Exposure limit values	No information available

◆ Biological limit values

Biological limit values	No information available

◆ Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard).

◆ Derived No effect level(DNEL)

Component	Route of exposure	DNEL for Workers			
		Acute effects(local)	Acute effects(systemic)	Chronic effects(local)	Chronic
Amodimethicone 68554-54-1	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

◆ Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PNEC)	No information available

8.2 Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

8.3 Personal protection equipment

General requirement	
Eye protection	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
Hand protection	Wear protective gloves(such as butyl rubber), passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.
Respiratory protection	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
Skin and body protection	Wear fire/flame resistant/retardant clothing and antistatic boots.

9. Physical and chemical properties

9.1 Physical and chemical properties

Appearance	Milky white emulsion fluid
Odor	No information available
Odor threshold	No information available
pH	7~9 (20℃)
Melting point/freezing point(℃)	No information available
Initial boiling point and boiling range(℃)	> 100
Flash point(Closed cup,℃)	> 100
Evaporation rate	No information available
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit : No information available ; Lower limit : No information available
Vapor pressure	No information available
Vapor density(Air = 1)	No information available
Relative density(Water=1)	0.95~1.05
Solubility(mg/L)	No information available
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(℃)	No information available
Decomposition temperature(℃)	No information available
Viscosity(mm^2/s)	No information available
Explosive properties	No information available
Oxidizing properties	No information available

10. Stability and reactivity

10.1 Stability and reactivity

Reactivity	Not classified as a reactivity hazard

Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	Can react with strong oxidizing agents.
Conditions to avoid	None known.
Incompatible materials	Avoid contact with oxidizing materials. Avoid contact with strong acids and strong bases.
Hazardous decomposition products	Decomposition products can include and are not limited to: Formaldehyde. Ammonia. hydrogen chloride.

11. Toxicological information

11.1 Acute toxicity

Acute toxicity	No information available

11.2 Carcinogenicity

Carcinogenicity	No information available

11.3 Others

Amodimethicone (and) Cetrimonium Chloride (and) Trideceth-12	
Skin corrosion/irritation	Causes skin irritation
Serious eye damage/irritation	Causes serious eye irritation
Skin sensitization	No information available
Respiratory sensitization	No information available
Reproductive toxicity	Suspected of damaging fertility or the unborn child
STOT-single exposure	No information available
STOT-repeated exposure	No information available
Aspiration hazard	May be harmful if swallowed and enters airways
Germ cell mutagenicity	No information available
Reproductive toxicity(additional)	No information available

12. Ecological information

Ecotoxicological information appears in this section when such data is available.

12.1 Toxicity

Toxicity	No information available

12.2 Bioaccumulative potential

Bioaccumulative potential	No information available

12.3 Mobility in soil

Mobility in soil	No information available

13. Disposal considerations

Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section 13.1and 13.2.

14. Transport information

DOT

DOT	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

IMO-IMDG

IMO-IMDG	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

IATA/ICAO

IATA/ICAO	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

15. Regulatory information

International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Amodimethicone	×	×	×	√	×	×	×	×	√
Cetrimonium chloride	√	√	√	√	√	√	√	√	×

【EINECS】European Inventory of Existing Commercial Chemical Substances
【TSCA】 United States Toxic Substances Control Act Inventory
【DSL】 Canadian Domestic Substances List
【IECSC】 China Inventory of Existing Chemical Substances
【NZIoC】 New Zealand Inventory of Chemicals
【PICCS】 Philippines Inventory of Chemicals and Chemical Substances
【KECI】 Existing and Evaluated Chemical Substances
【AICS】 Australia Inventory of Chemical Substances
【ENCS】 Existing And New Chemical Substances

European chemical inventory

Component	A	B	C	D	E	F	G
Amodimethicone	×	×	×	×	×	×	×
Cetrimonium chloride	×	×	×	√	√	×	×

【A】Candidate list of Substances of Very High Concern for authorization under EU REACh regulation
【B】Substances requiring authorisation under EU REACh regulation
【C】Substances restricted under EU REACh
【D】Pre-registered substances under EU REACh
【E】Registered substances under EU REACh

【F】Substance Evaluation – CoRAP under EU REACh
【G】List of priority substances under EU water policy (Directive 2455/2001/EC)

Note
"√" Indicates that the substance included in the regulations
"×" That no data or included in the regulations

16. Other information

Information on revision

Creation Date	2018/10/19
Revision Date	2022/5/13
Reason for revision	-

Reference

[1]IPCS:The International Chemical Safety Cards (ICSC) ,website: http://www.ilo.org/dyn/icsc/showcard.home.
[2]IARC , website: http://www.iarc.fr/.
[3]OECD: The Global Portal to Information on Chemical Substances, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en.
[4]CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
[5]NLM:ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.
[6]EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
[7]U.S. Department of Transportation:ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
[8]Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS –Chemical Abstracts Service

PC-STEL- Short term exposure limit

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment

LC_{50} - Lethal Concentration 50%

NOEC -No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

BCF - Bioconcentration factor (BCF)

IMDG-International Maritime Dangerous Goods

UN-The United Nations

NFPA-National Fire Protection Association

CMR - Carcinogens, mutagens or substances toxic to reproduction

PC-TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

PNEC –Predicted No Effect Concentration

LD_{50} - Lethal Dose 50%

EC_{50} - Effective Concentration 50%

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

ICAO/IATA-International Civil Aviation Organization/International Air Transportation Association

ACGIH-American Conference of Governmental Industrial Hygienists

OECD-Organization for Economic Co-operation and Development

Disclaimer

This Safety Data Sheet (SDS) was prepared according to REACh Regulation The data included was derived from

international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.